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Date of Deposit: February 7, 2001

**PATENT** 

Attorney Docket No: 17810-513 (SCI-13)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ART UNIT:

1632

APPLICANTS:

Rosemary A. Fricker

SERIAL NO:

09/693,043

FILING DATE:

October 20, 2000

For:

METHODS FOR INDUCING IN VIVO PROLIFERATION AND

MIGRATION OF TRANSPLANTED PROGENITOR CELLS IN THE

**BRAIN** 

February 7, 2001 Boston, Massachusetts

Assistant Commissioner for Patents Washington, D.C. 20231

#### INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97, and 1.98, Applicant hereby makes of record the attached documents listed below and on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application. The order of presentation of the references should not be construed as an indication of the importance of the references.

# **U.S. Patents:**

4,352,883	10/5/82	Lim
4,353,888	10/12/82	Sefton
4,470,461	9/11/84	Stapp
4,968,733	11/6/90	Muller and Wechs
4,976,859	12/11/90	Wechs
5,082,670	1/21/92	Gage, et al.
5,084,350	1/28/92	Chang and Wong
5,122,464	6/16/92	Wilson and Bebbington
5,158,881	10/27/92	Aebischer and Wahlberg
5,284,761	2/8/94	Aebischer and Wahlberg

APPLICANTS:

Rosemary A. Fricker 09/693,043

U.S.S.N.: 09/693,04

5,618,531	4/8/97	Cherksey
5,750,376	5/12/98	Weiss, et al.
5,753,506	5/19/98	Johe
5,800,828	9/1/98	Dionne, et al.

# Foreign Patents:

EP	0 338 841 B1	Celltech Limited	10/25/89
wo	96/31242	Albert Einstein College of Medicine of Yeshiva University	10/10/96
WO	92/19195	Brown University Research Foundation	11/12/92
wo	93/01275	Weiss and Reynolds	1/21/93
wo	94/09119	Neurospheres Ltd.	4/28/94
wo	94/10292	Neurospheres Ltd.	5/11/94
wo	94/16718	Neurospheres Ltd.	8/4/94
wo	95/00632	Amgen, Inc.	1/5/95
wo	95/05452	Cytotherapeutics, Inc.	2/23/95
wo	96/02646	Cytotherapeutics, Inc.	2/1/96

# Other Documents:

Cattaneo, et al., Molec. Brain Res.; 42:161-66 (1996)	
Lois and Alvarez-Buylla, Science, 264:1145-48 (1994).	
Craig, et al., J. Neurosci., 16:2649-58 (1996).	
Luskin, Neuron, 11:173-89 (1993).	
Kuhn, et al., J. Neurosci., 17:5820-29 (1997).	
Ahmed, et al., J. Neurosci., 15:5765-78 (1995).	
Potten and Loeffler, Development, 110:1001-20 (1990).	
Fricker, et al., J. Neurosci., 19(14): 5990-6005 (1999).	-

This Information Disclosure Statement is being been filed:
within three months of the filing date of the National Application;
within three months of the filing date of the entry of the National Stage, as set forth in 37 C.F.R.
§1.491, in an International Application; or

**APPLICANTS:** 

Rosemary A. Fricker

U.S.S.N.:

09/693,043

before the mailing date of a first Office Action on the merits in the above-identified case.

Accordingly, no fee or certification is required. 37 C.F.R. §1.97

It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and Trademark Office during the examination of this application.

By submitting this Information Disclosure Statement, the Applicant makes no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicants, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested. Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311 (Reference No. 17810-513 (SCI-13)).

Respectfully submitted,

Ivor R. Elrifi, Reg. Nov 39,529

Christina V. Karnakis, Reg. No. 45,899

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PTO/SB (12-97)

Approved for use through 9/30/00. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Modified Form 1449/PTO	Application Number	09/693,043
	Filing Date	October 20, 2000
INFORMATION DISCLOSURE	First Named Inventor	Rosemary A. Fricker
STATEMENT BY APPLICANT	Group Art Unit	1632
	Examiner Name	
(use as many sheets as necessary)	Attorney Docket Number	17810-513- (SCI-13)

		U.S. PATENT DOCUMENTS						
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate	
	A1	4,352,883	10/5/82	Lim				
	A2	4,353,888	10/12/82	Sefton				
	А3	4,470,461	9/11/84	Stapp				
	A4	4,968,733	11/6/90	Muller and Wechs				
	A5	4,976,859	12/11/90	Wechs		<u> </u>	<del>                                     </del>	
	A6	5,082,670	1/21/92	Gage, et al.				
<u>.</u>	A7	5,084,350	1/28/92	Chang and Wong				
	A8	5,122,464	6/16/92	Wilson and Bebbington				
	A9	5,158,881	10/27/92	Aebischer and Wahlberg		1		
	A10	5,284,761	2/8/94	Aebischer and Wahlberg				
	A11	5,618,531	4/8/97	Cherksey				
	A12	5,750,376	5/12/98	Weiss, et al.				
	A13	5,753,506	5/19/98	Johe			-	
	A14	5,800,828	9/1/98	Dionne, et al.				

FOREIGN PATENT DOCUMENTS						
Exam Initials	Cite No.	Foreig Office	gn Patent Document Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
	BI	EP	0 338 841 B1	Celltech Limited	10/25/89	
	B2	wo	96/31242	Albert Einstein College of Medicine of Yeshiva University	10/10/96	
	В3	wo	92/19195	University Research Foundation	11/12/92	
	B4	wo	93/01275	Weiss and Reynolds	1/21/93	
	B5	wo	94/09119	Neurospheres Ltd.	4/28/94	
	B6	wo	94/10292	Neurospheres Ltd.	5/11/94	
<del></del> :	B7	wo	94/16718	Neurospheres Ltd.	8/4/94	<del></del>
	B8	wo	95/00632	Amgen, Inc.	1/5/95	

Express Mail Label No. EJ770258776US

Date of Deposit: February 7, 2001 Page 2 of 2

FOREIGN PATENT DOCUMENTS						
Exam Initials	Cite No.	Foreiq Office	n Patent Document Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No
	B9	wo	95/05452	Cytotherapeutics, Inc.	2/23/95	
	B10	wo	96/02646	Cytotherapeutics, Inc.	2/1/96	

	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS					
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.				
<b></b>	C1	Cattaneo, et al., Molec. Brain Res.; 42:161-66 (1996).				
	C2	Lois and Alvarez-Buylla, Science, 264:1145-48 (1994).				
	C3	Craig, et al., J. Neurosci., 16:2649-58 (1996).				
	C4	Luskin, Neuron, 11:173-89 (1993).				
	C5	Kuhn, et al., J. Neurosci., 17:5820-29 (1997).				
	C6	Ahmed, et al., J. Neurosci., 15:5765-78 (1995).				
	C7	Potten and Loeffler, Development, 110:1001-20 (1990).				
	C8	Fricker, et al., J. Neurosci., 19(14): 5990-6005 (1999).				

Serial No	, filed	was previously cited by or submitted to the office in a prior application,, and relied upon for an earlier filing date under part, and divisional applications).	
Examiner Signature		Date Considered	_

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

TRADOCS:1434182.1(%QM#01!.DOC)

Express Mail Label No.: EL585247916US

Date of Deposit: July 24, 2001

Attorney Docket No. 17810-513 (SCI-13)

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS:

Bjorklund, et al.

SERIAL NUMBER:

09/693,043

**EXAMINER:** 

Not Yet Assigned

FILING DATE:

October 20, 2000

**ART UNIT:** 

1643

FOR:

METHODS FOR INDUCING IN VIVO PROLIFERATION AND MIGRATION OF

TRANSPLANTED PROGENITOR CELLS IN THE BRAIN

#### **Box IDS**

Assistant Commissioner for Patents Washington, D.C. 20231

# SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pursuant to the duty of disclosure under 37 C.F.R. §§1.56, 1.97 and 1.98, Applicants hereby make of record the documents listed below and on the attached modified Form PTO-1449 (submitted in duplicate) in the above-identified application, copies of which are submitted herewith. The order of presentation of the references should not be construed as an indication of the importance of the references.

# **U.S. Patent Documents:**

5,968,829

Carpenter, Melissa

1999-10-19

#### **Foreign Patent Documents:**

WO 99/06060

University of California

1999-02-11

#### Other Prior Art - Non Patent Literature Documents:

International Search Report, issued 2001-05-31

Fricker-Gates, Rosemary, et al., October 2000. "EGF infusion stimulates the proliferation and migration of embryonic progenitor cells transplanted in the adult rat striatum." Exp. Neurology, vol. 165, no. 2, pages 237-247.

Winkler, et al., 1997. "Effects of intraventricular EGF-delivery on transplants of EGF-responsive neural progenitor cells." Soc. for Neuroscience Abstracts, vol. 23, no. 1-2, page 593.

This Information Disclosure Statement is being been filed:

within three months of the filing date of the National Application;

APPLICANTS:		Bjorklund, <i>et al.</i>
U.S.S.N.:		09/693,043
		three months of the filing date of the entry of the National Stage, as set .R. §1.491, in an International Application; or

Accordingly, no fee or certification is required. 37 C.F.R. §1.97

Trademark Office during the examination of this application.

within three months of the mailing date of the International Search Report;

A copy of each of the above-identified information is enclosed unless otherwise indicated on the attached Form PTO-1449 (modified). It is respectfully requested that the Examiner consider completely the cited information, along with any other information, in reaching a determination concerning the patentability of the present claims, and signs the enclosed form PTO-1449 to evidence that the cited information has been fully considered by the Patent and

before the mailing date of a first Office Action on the merits in the above-identified case.

By submitting this Supplemental Information Disclosure Statement, the Applicant makes no representation that: (1) a search has been performed, of the extent of any search performed, or that more relevant information does not exist; (2) the information cited in the Statement is, or is considered to be, material to patentability as defined in 37 C.F.R. §1.56(b); and (3) the information cited in the Statement is, or is considered to be, in fact, prior art as defined by 35 U.S.C. §102.

Notwithstanding any statements by the Applicant, the Examiner is urged to form his/her own conclusion regarding the relevance of the cited information. An early and favorable action is hereby requested. Please charge any additional fees that may be due, or credit any overpayment of same, to Deposit Account No. 50-0311, Reference No. 17810-513 (SCI-13).

Respectfully submitted,

Lvor R. Elrifi, Reg. No. 39,529

Christina V. Karnakis, Reg. No. 45,899

Attorneys for Applicant c/o MINTZ, LEVIN

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Dated: July 24, 2001

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Date of Deposit: July 24, 2001

Page 1 of 1

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Approved for use through 9/30/00. OMB 0651-0031
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Modified Form 1449/PTO	Application Number	09/693,043	
	Filing Date	10/20/00	
INFORMATION DISCLOSURE	First Named Inventor	Bjorklund	
STATEMENT BY APPLICANT	Group Art Unit	1643	
	Examiner Name	Not Yet Assigned	
(use as many sheets as necessary)	Attorney Docket Number	17810-513 (SCI-13)	

U.S. PATENT DOCUMENTS								
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate	
	A15	US 5,968,829	10/19/99	Carpenter, Melissa			09/05/1997	

		٠		FOREIGN PATENT DOCUMENTS		
Exam Initials	Cite No.	Foreig Office	n Patent Document Number	Name of Applicant(s)	Date of Publication	Translation Yes No
	B11	wo	99/06060	University of California	02/11/1999	

1	4, 4,	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
	С9	International Search Report, issued 05/30/01
	C10	Fricker-Gates, Rosemary, et al., October 2000. "EGF infusion stimulates the proliferation and migration of embryonic progenitor cells transplanted in the adult rat striatum.: Exp. Neurology, vol. 165, no. 2, pgs. 237-247.
	C11	Winkler, et al., 1997. "Effects of intraventricular EGF-delivery on transplants of EGF-responsive neural progenitor cells." Soc. for Neuroscience Abstracts, vol. 23, no. 1-2, page 593.
<del>-</del>	<b></b>	

* a copy of	this reference is not provided as it w	as previously cited by or submitted to the office in a prior application,
Serial No.	, filed	, and relied upon for an earlier filing date under
35 U.S.C. 🤄	120 (continuation, continuation-in-pa	art, and divisional applications).

Examiner Signature	Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

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